

## PATENT ABSTRACTS OF JAPAN

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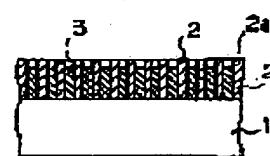
(21)Application number : 04-015628 (71)Applicant : RICOH CO LTD  
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### (54) ELECTRON EMISSION ELEMENT AND ITS MANUFACTURE

#### (57)Abstract:

**PURPOSE:** To provide an electron emission element and its manufacturing method which can increase the electron emission amount per unit area, by increasing the density of a needle electrode which emits electrons.

**CONSTITUTION:** The Al membrane of a metallic laminate membrane 1 including an Al surface layer is anodized to form an Al anodization membrane 2 which has minute pores 2a. In the minute pores of the above Al anodization membrane 2, cylindrical electrodes 3 are formed by an electrolytic deposition.



### LEGAL STATUS

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